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10/748,981

12/30/2003

Mikko Jaakkola

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10/03/2005

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EXAMINER

NGUYEN, KHAI MINH

ART UNIT

PAPER NUMBER

2687

DATE MAILED: 10/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/748,981

Applicant(s)

JAAKKOLA ET AL.

Examiner

Khai M. Nguyen

Art Unit

2687

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 8-14, 16 and 17 is/are rejected.
- 7) ☒ Claim(s) 7 and 15 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 12/30/03, 11/4/04.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The references listed in the Information Disclosure Statement filed on December 30, 2003 and November 4, 2004 have been considered by the examiner (see attached PTO-1449 form or PTO/SB/08A and 08B forms).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-6, 8-14, and 6-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Reynolds (U.S.Pub-20030125028).

Regarding claim 1, Reynolds teaches a method for arranging handover in a wireless telecommunications system (fig.1, abstract), the method comprising

storing in a terminal connection settings (paragraph 0023-0024), wherein a network identifier is associated with at least some of the alternative connection settings (fig.2, paragraph 0028), the network identifier identifying a target network reachable by a connection from the terminal (fig.2, paragraph 0028-0029),

comparing the current network identifier associated with the currently applied at least one connection setting to the stored network identifier associated with at least one other available connection setting (paragraph 0023-0024),

selecting at least one connection setting associated with the same network identifier as the network identifier associated with the currently applied at least one connection setting (paragraph 0023-0024, 0029), and

carrying out handover by using the selected at least one connection setting (paragraph 0023-0024, 0029).

Regarding claim 2, Reynolds teaches the method according to claim 1, wherein the network identifier of the at least one other available connection setting is checked in response to a need to arrange handover for the original connection based on the currently applied at least one connection setting (paragraph 0024-0025, 0028).

Regarding claim 3, Reynolds teaches the method according to claim 2, wherein at least one other available connection setting associated with a different network

identifier than the one associated with the at least one currently applied connection setting is dropped (paragraph 0003, 0024-0025, 0028), and a handover algorithm is executed for the remaining connection settings (paragraph 0003, 0024-0025, 0028).

Regarding claim 4, Reynolds teaches the method according to claim 1, wherein at least one other available connection setting associated with a different network identifier than the one associated with the at least one currently applied connection setting is dropped (paragraph 0003, 0024-0025, 0028), and

a handover algorithm is executed for the remaining connection settings (paragraph 0043).

Regarding claim 5, Reynolds teaches the method according to claim 1, wherein the network identifier associated with at least one connection setting selected by a handover algorithm is checked (paragraph 0024, 0043), and

handover is carried out using the selected at least one connection setting if the network identifier is the same as the network identifier associated with the currently applied at least one connection setting (paragraph 0023-0024, 0029), or

at least one new connection setting is selected (paragraph 0037).

Regarding claim 6, Reynolds teaches the method according to claim 1, wherein at least one network identifier is defined internally in the terminal and associated with at least one connection setting (paragraph 0003, 0024-0025, 0028).

Regarding claim 8, Reynolds teaches the method according to claim 1, wherein the at least one available connection setting is determined based on information received from the network (paragraph 0003, 0024-0025, 0028).

Regarding claim 9, Reynolds teaches a wireless terminal comprising means for establishing access with a wireless network (fig.1, abstract), wherein

the terminal is configured to store connection settings (paragraph 0023-0024), wherein a network identifier is associated with at least some of the alternative connection settings (fig.2, paragraph 0028), the network identifier identifying a target network reachable by a connection from the terminal (fig.2, paragraph 0028-0029),

the terminal is configured to compare the current network identifier associated with the currently applied at least one connection setting to the stored network identifier associated with at least one other available connection setting (paragraph 0023-0024),

the terminal is configured to select at least one connection setting associated with the same network identifier as the network identifier associated with the currently applied at least one connection setting (paragraph 0013-0024, 0029), and

the terminal is configured to carry out handover by using the selected at least one connection setting (paragraph 0023-0024, 0029).

Regarding claim 10, Reynolds teaches the terminal according to claim 9, wherein the terminal is configured to check the network identifier of the at least one other available connection setting in response to a need to arrange handover for the original connection based on the currently applied at least one connection setting (paragraph 0024-0025, 0028).

Regarding claim 11, Reynolds teaches the terminal according to claim 10, wherein the terminal is configured to drop at least one other available connection setting associated with a different network identifier than the one associated with the at least one currently applied connection setting (paragraph 0003, 0024-0025, 0028), and

the terminal is configured to execute a handover algorithm for the remaining connection settings (paragraph 0043).

Regarding claim 12, Reynolds teaches the terminal according to claim 9, wherein the terminal is configured to drop at least one other available connection setting associated with a different network identifier than the one associated with the at least one currently applied connection setting (paragraph 0003, 0024-0025, 0028), and the

terminal is configured to execute a handover algorithm for the remaining connection settings (paragraph 0043).

Regarding claim 13, Reynolds teaches the terminal according to claim 9, wherein the terminal is configured to check the network identifier associated with at least one connection setting selected by a handover algorithm (paragraph 0024, 0043), and the terminal is configured to carry out the handover using the selected at least one connection setting if the network identifier is the same as the network identifier associated with the currently applied at least one connection setting (paragraph 0023-0024, 0029), or

the terminal is configured to select at least one new connection setting (paragraph 0037).

Regarding claim 14, Reynolds teaches the terminal according to claim 9, wherein the terminal is configured to define at least one network identifier internally and the terminal is configured to associate the network identifier with at least one connection setting (paragraph 0003, 0024-0025, 0028).

Regarding claim 16, Reynolds teaches the terminal according to claim 9, wherein the terminal is configured to determine the available at least one connection setting based on information received from the network (paragraph 0003, 0024-0025, 0028).

Regarding claim 17, Reynolds teaches a computer program product for controlling the wireless terminal in response to executing a program code included in the computer software product in a processor of the terminal (fig.1, abstract, paragraph 0002), wherein the computer software product comprises

a program code portion for controlling the terminal to store connection settings (paragraph 0023-0024), wherein a network identifier is associated with at least some of the alternative connection settings (fig.2, paragraph 0028), the network identifier identifying a target network reachable by a connection from the terminal (fig.2, paragraph 0028-0029),

a program code portion for controlling the terminal to compare the current network identifier associated with the currently applied at least one connection setting to the stored network identifier associated with at least one available other connection setting (paragraph 0023-0024),

a program code portion for controlling the terminal to select at least one connection setting associated with the same network identifier as the network identifier associated with the currently applied at least one connection setting (paragraph 0023-0024, 0029), and

a program code portion for controlling the terminal to carry out handover by using the selected at least one connection setting (paragraph 0023-0024, 0029).

Allowable Subject Matter

4. Claims 7, 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Citation of Pertinent Prior Art

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chung (U.S.Pat-6496493) discloses Handoff trial method by a mobile station.

Shoaib et al. (U.S.Pub-20030193910) discloses Context aware application level triggering mechanism for pre-authentication, service adaptation, pre-caching and handover in heterogeneous network environment.

Ala-Laurila et al. (U.S.Pat-6477156) discloses Apparatus and associated method, for selectably operating radio device in alternate operating mode.

Fukuda (U.S.Pub-20030021254) discloses Wireless LAN terminal, wireless LAN base station, and wireless LAN system including them and wireless hand-off method.

Scheinert et al. (U.S.Pub-20040204097) discloses Internet base station.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khai M. Nguyen whose telephone number is 571.272.7923. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on 571.272.7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Khai Nguyen
Au: 2687

9/23/2005


9/23/05
LESTER G. KINCAID
SUPERVISORY PRIMARY EXAMINER